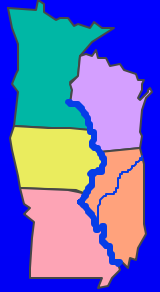
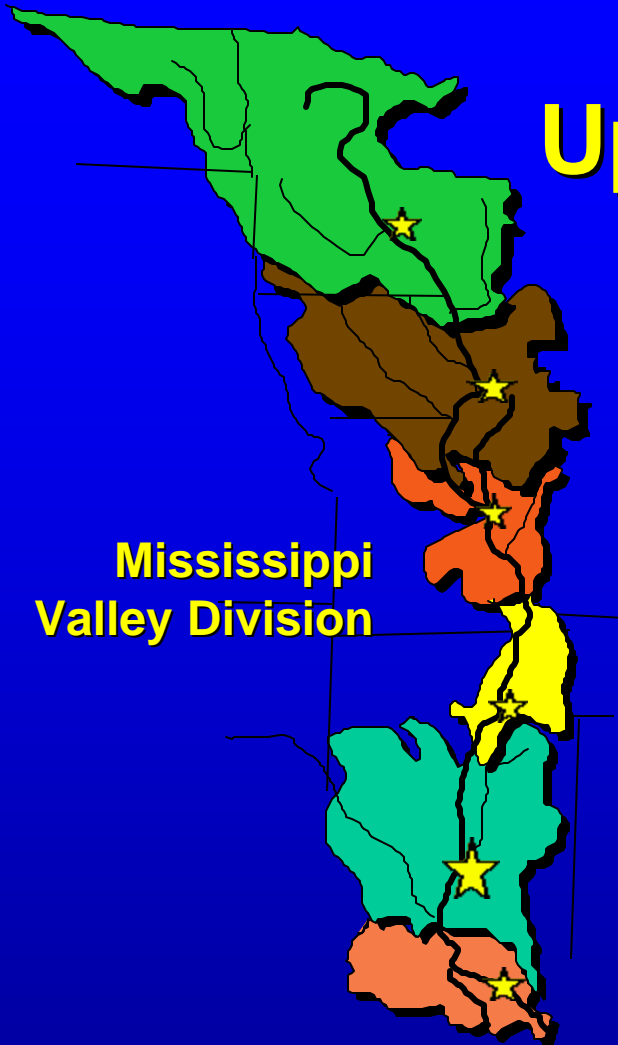


Upper Mississippi River - Illinois Waterway System Restructured Navigation Study

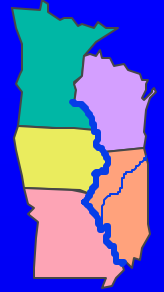


**Mississippi
Valley Division**

Public Meetings March 12-21, 2002

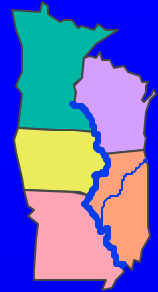


Informational Public Meetings

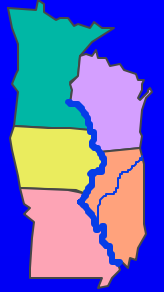


- **March 12 – Peoria, IL.**
- **March 13 – St. Louis, MO.**
- **March 19 – Bloomington, MN.**
- **March 20 – LaCrosse, WI.**
- **March 21 - Davenport, IA.**

Agenda



- March 1993-January 2000
- February 2000-August 2001
- August 2001 



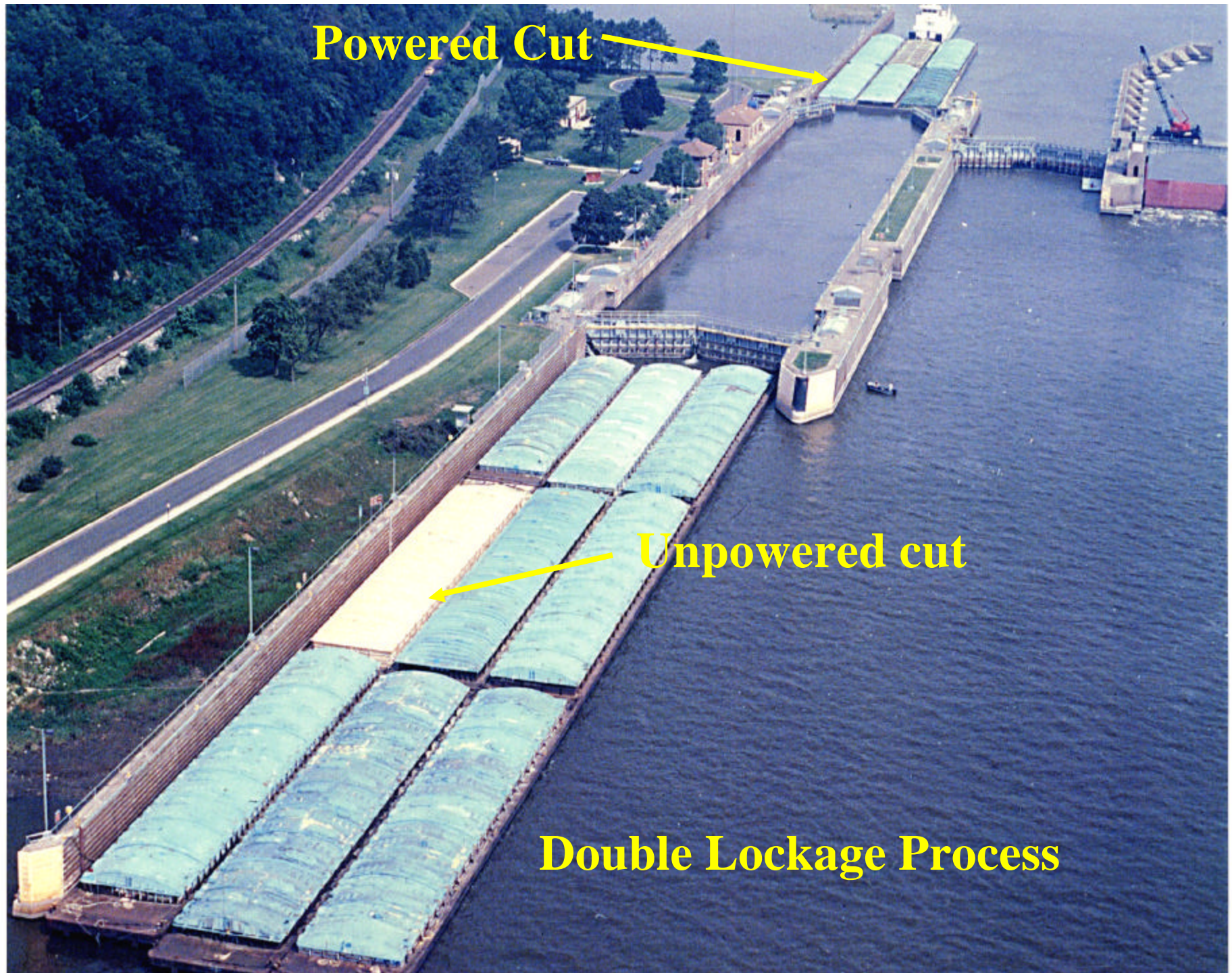
March 1993-January 2000

Study Area

- 37 Lock Sites
- 1,200 Miles of River







Powered Cut

Unpowered cut

Double Lockage Process

1200-Foot Lock



Adjacent Moorings



Guidewall Extension



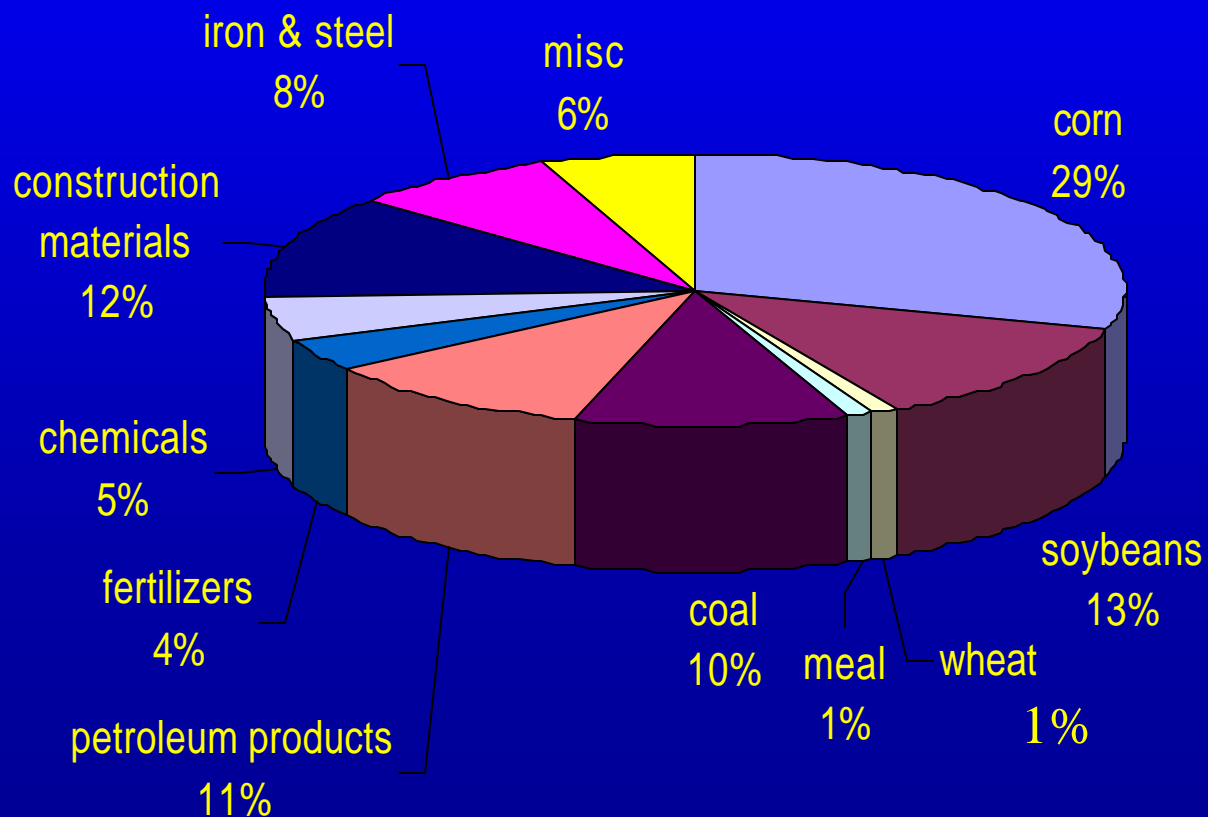
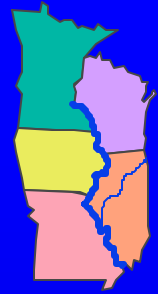
Non-structural Measures

Structural Measures

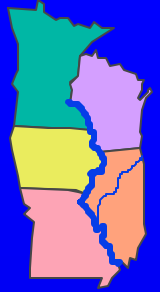


Navigation Study

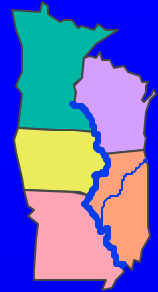
Upper Mississippi River - Illinois Waterway 2000 Traffic Distribution



Site-Specific Impacts

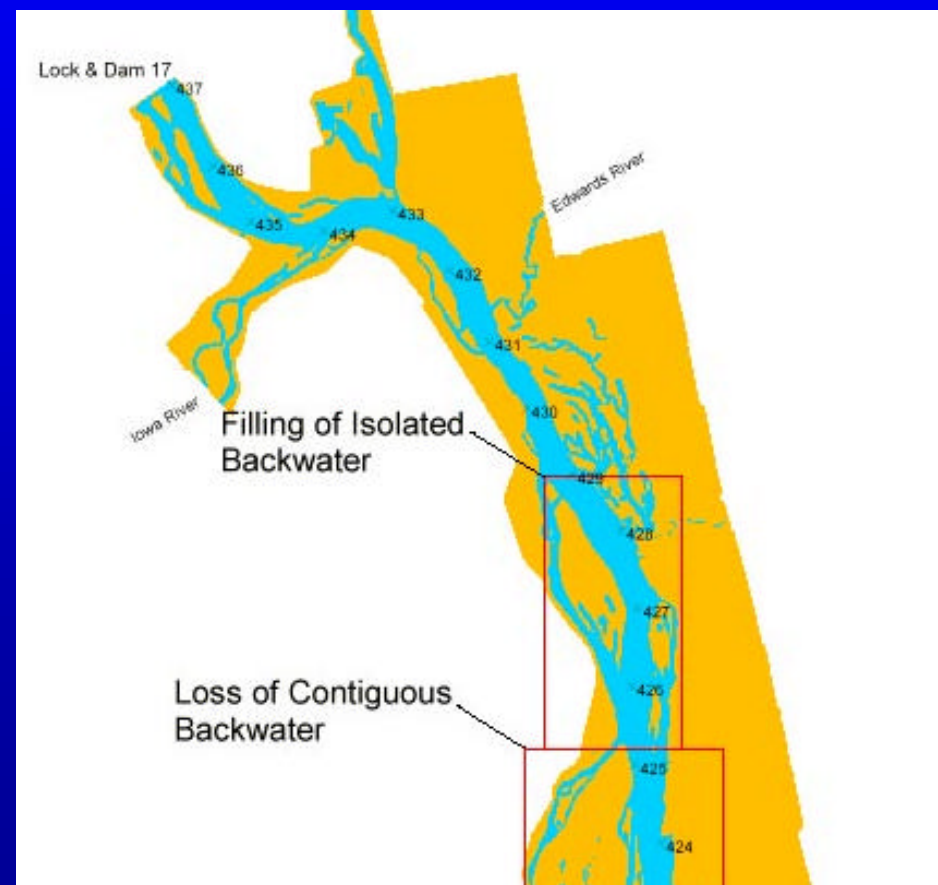
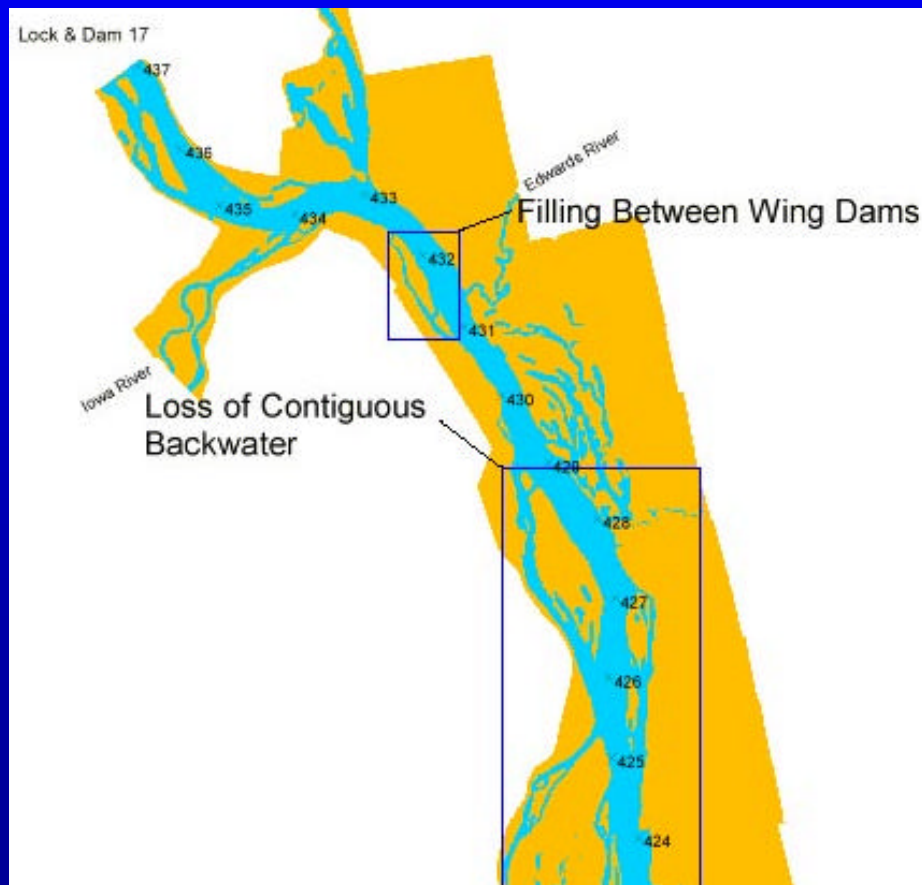


Cumulative Impacts

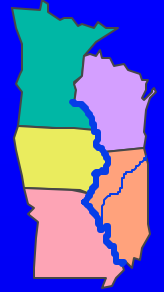


Historical Changes Mississippi River - Pool 18 Post-Dam - 1989

Projected Changes Mississippi River - Pool 18 1989 - 2050



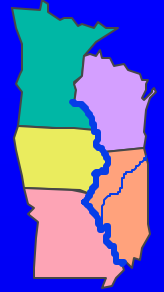
System Impacts



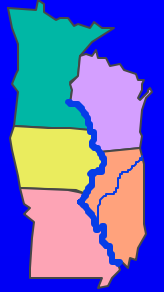
- Fish
- Plants
- Mussels
- Bank Erosion
- Backwater Sediment



Public Outreach

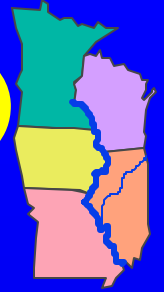


- Oct-Nov 1993 Public Informational Meetings (14 locations)
- Nov 1994 Public Meetings and NEPA Scoping Meetings (8 locations)
- Nov-Dec 1995 Public Open Houses (5 Locations)
- Jul-Aug 1999 Public Workshops (7 Locations)



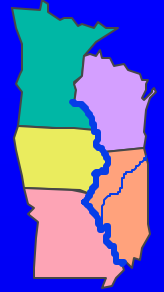
February 2000-August 2001

National Research Council(NRC)



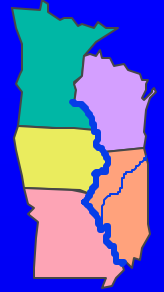
- Include equal consideration for fish and wildlife resources.
- Address effects of existing Nine-Foot Channel Project.
- Defensible 50-year forecasts are unlikely to be achieved.
- Spatial Equilibrium Model used is incomplete and should be further developed; lacked sufficient data to support assumptions.

Federal Principals Task Force

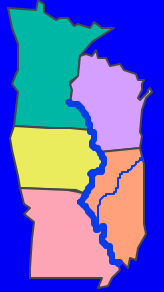


- Fish and Wildlife Service
- Environmental Protection Agency
- Maritime Administration
- Department of Agriculture
- Corps of Engineers

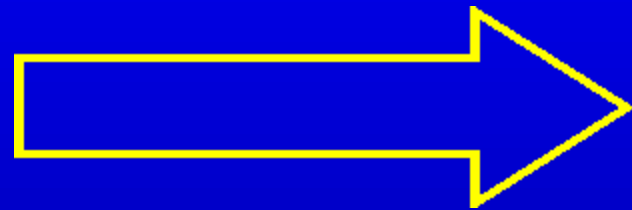
Federal Principals Task Force



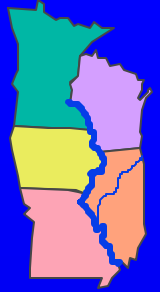
- Include equal consideration for fish and wildlife resources. **Concur.**
- Address effects of existing Nine-Foot Channel Project. **Concur.**
- Defensible 50-year forecasts are unlikely to be achieved. **Concur. Recommended scenario analysis.**
- Spatial Equilibrium Model used is incomplete and should be further developed; lacked sufficient data to support assumptions. **Non-concur, spatial model should be developed separate from study.**



August 2001

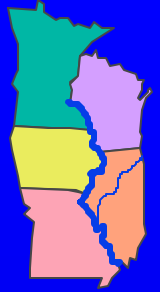


Scope and Objectives



- **Scope:** Focus on authorized Federal navigation projects and the ecological and floodplain resources that are affected by these projects.
- **Objectives**
 - Relieve lock congestion.
 - Achieve environmental sustainable system.
 - Address ecosystem, floodplain management needs related to navigation.

Collaboration

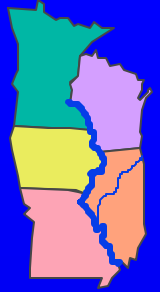


Economic

Environmental

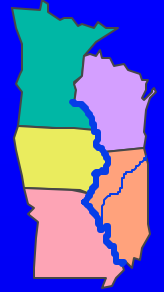
Sustainability

Stakeholders



- **Fish and Wildlife Service**
- **Environmental Protection Agency**
- **Department of Agriculture**
- **Maritime Administration**
- **Minnesota, Wisconsin, Illinois, Iowa, & Missouri**
- **Non-Governmental Organizations**

Joint ECC/NECC Meeting



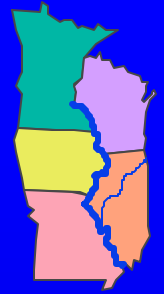
- **Developed common understanding of sustainability**

“The balance of economic, ecological, and social conditions so as to meet the current, projected, and future needs of the Upper Mississippi River System without compromising the ability of future generations to meet their needs.”

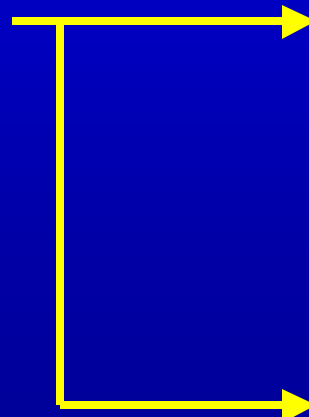
ECC-Economic Coordinating Committee

NECC-Navigation Environmental Coordination Committee

Original Study —————> Relieve congestion.



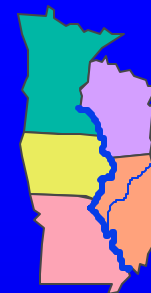
**Restructured
Study**



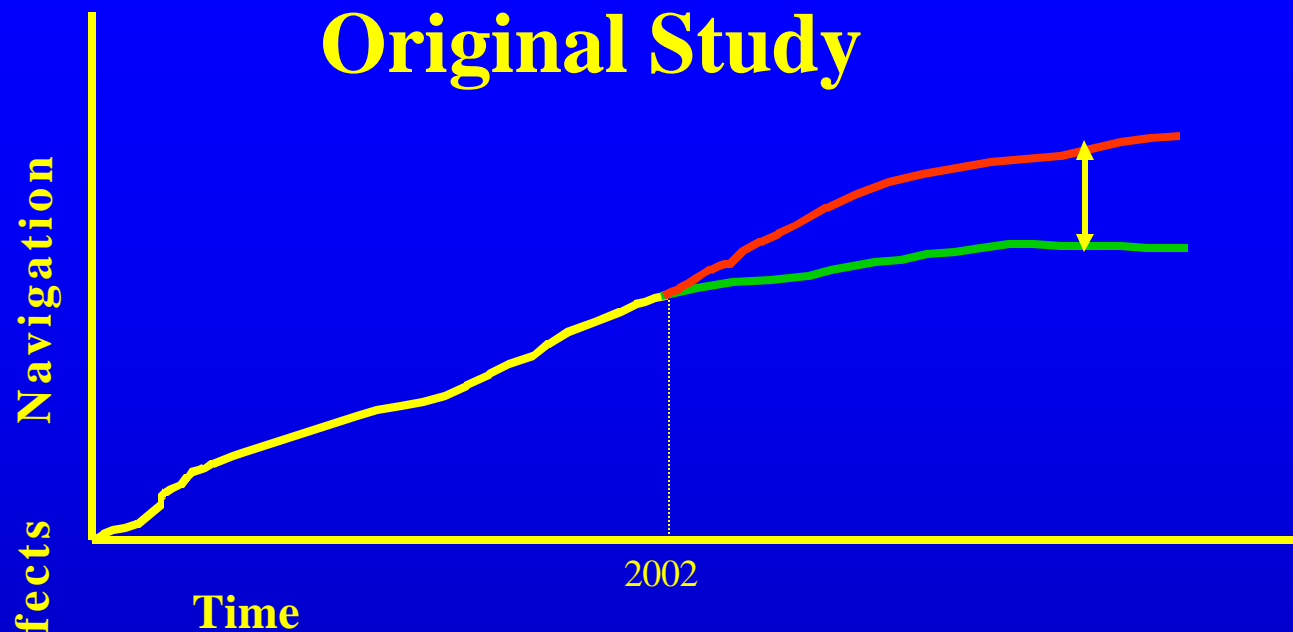
Relieve congestion.

Achieve environmental
sustainable system.

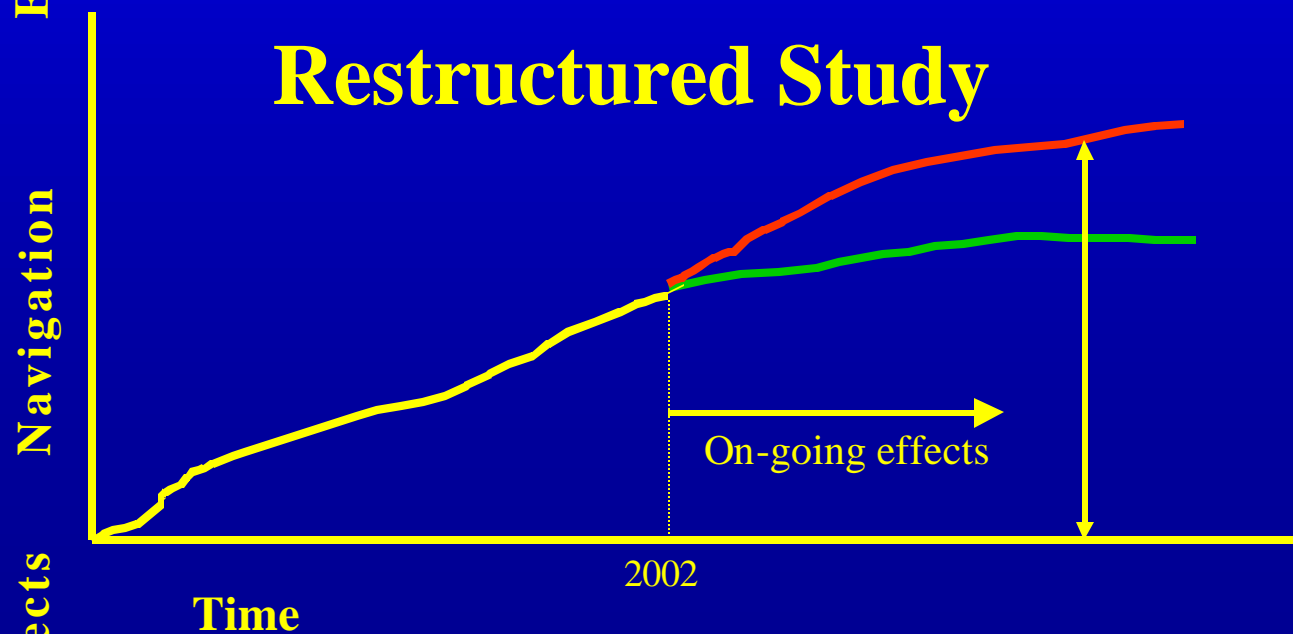
Address ecosystem,
floodplain mgmt needs
related to navigation.



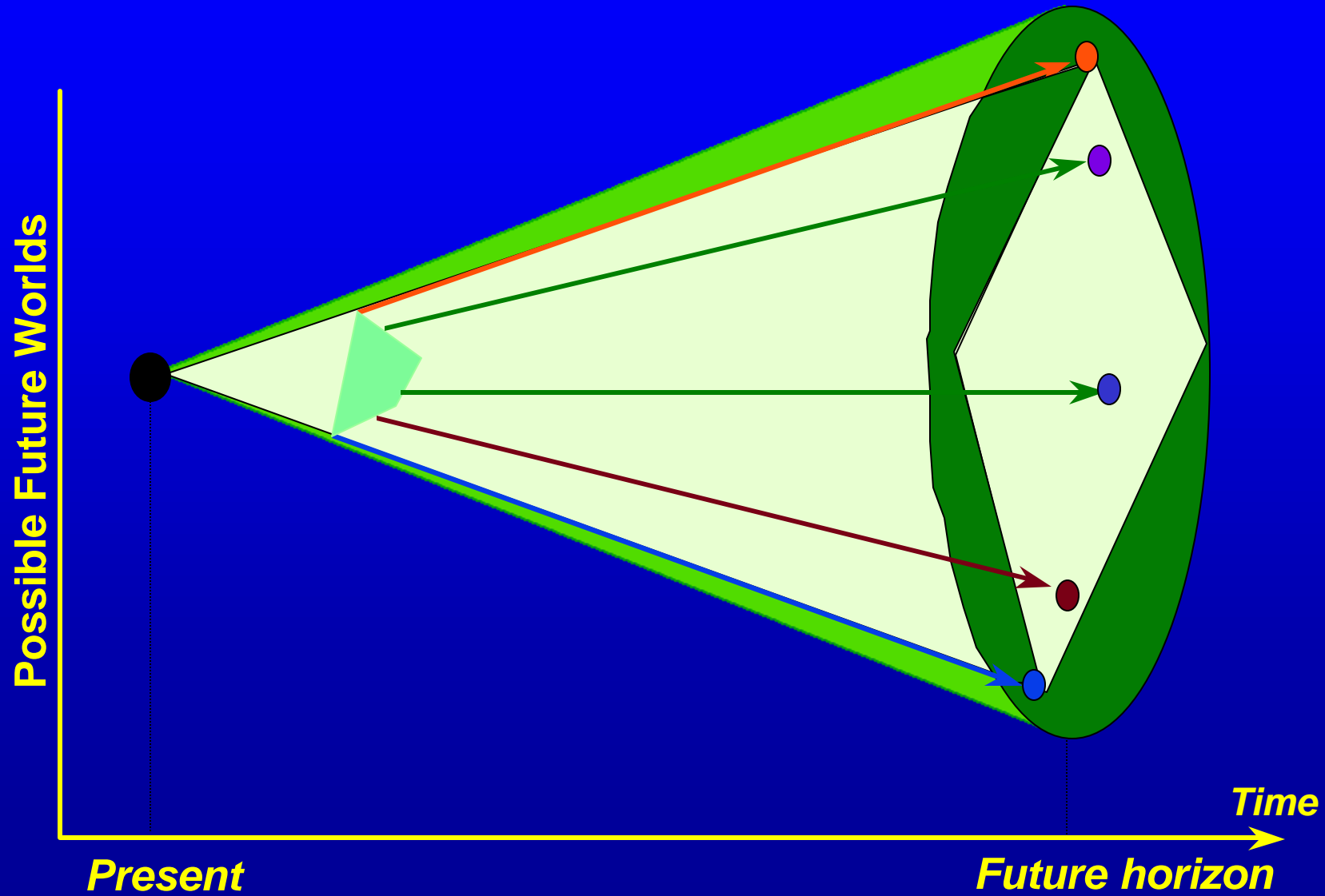
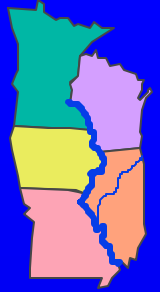
Original Study



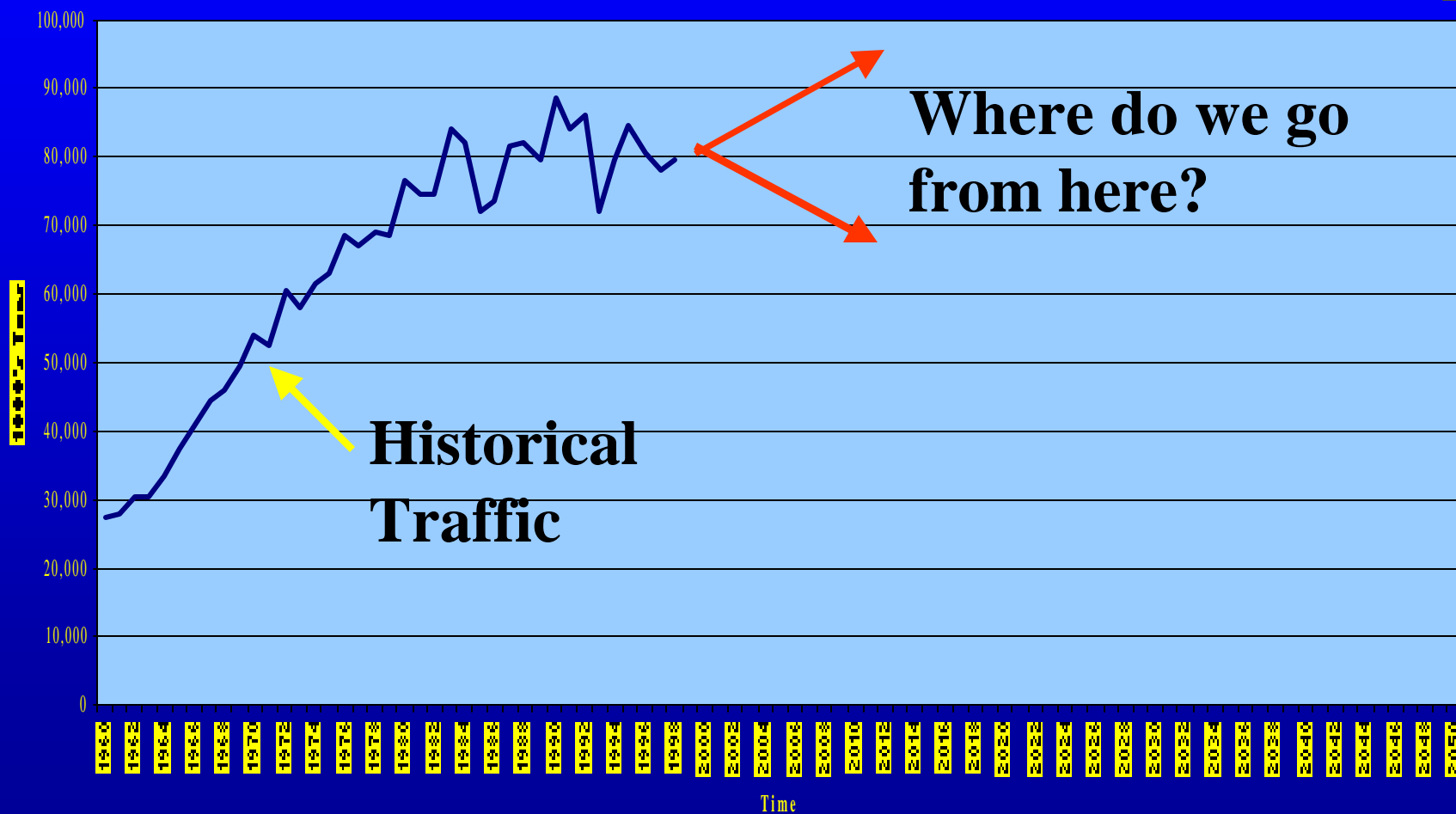
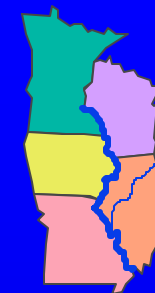
Restructured Study



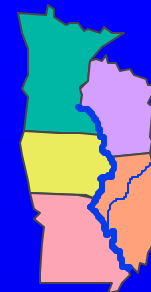
Plausible Future Worlds



Mississippi River Traffic



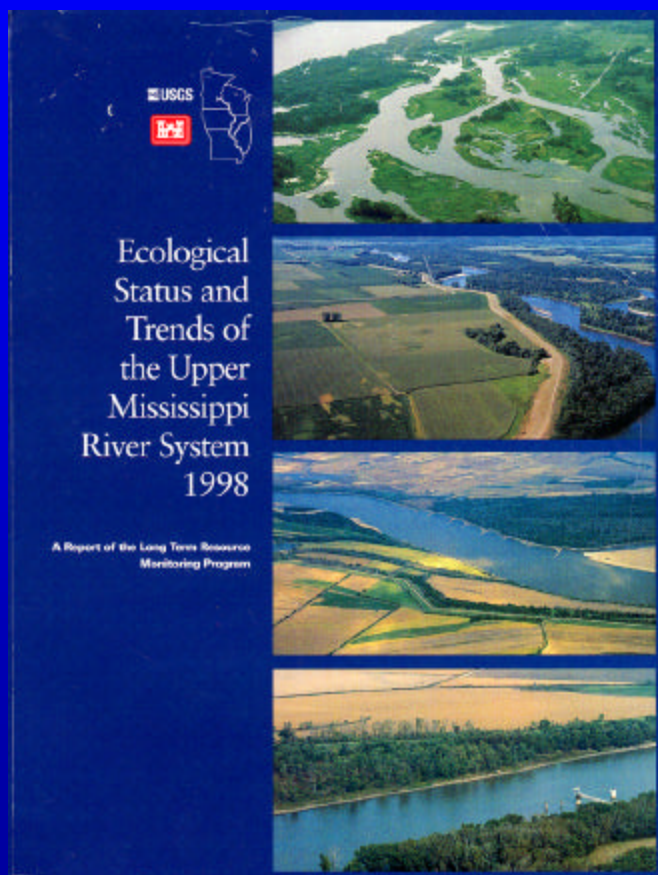
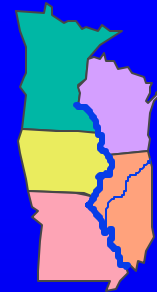
Scenario Development



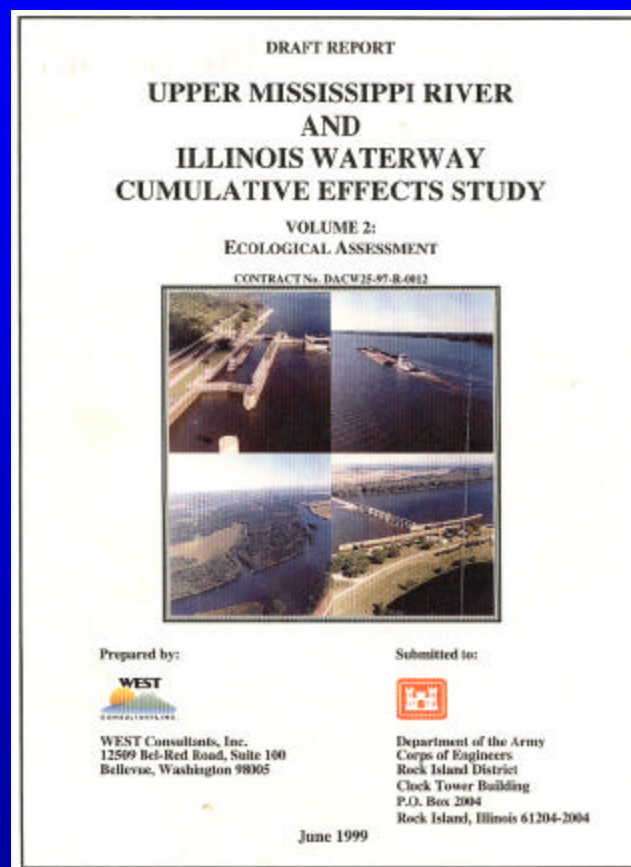
Scenario Drivers-Trends, Policies, Conditions, and Events that impact the U.S. agricultural production, utilization and export prospects.

- World Trade Drivers
- Crop Area Drivers
- Crop Yield Drivers
- Consumption Drivers

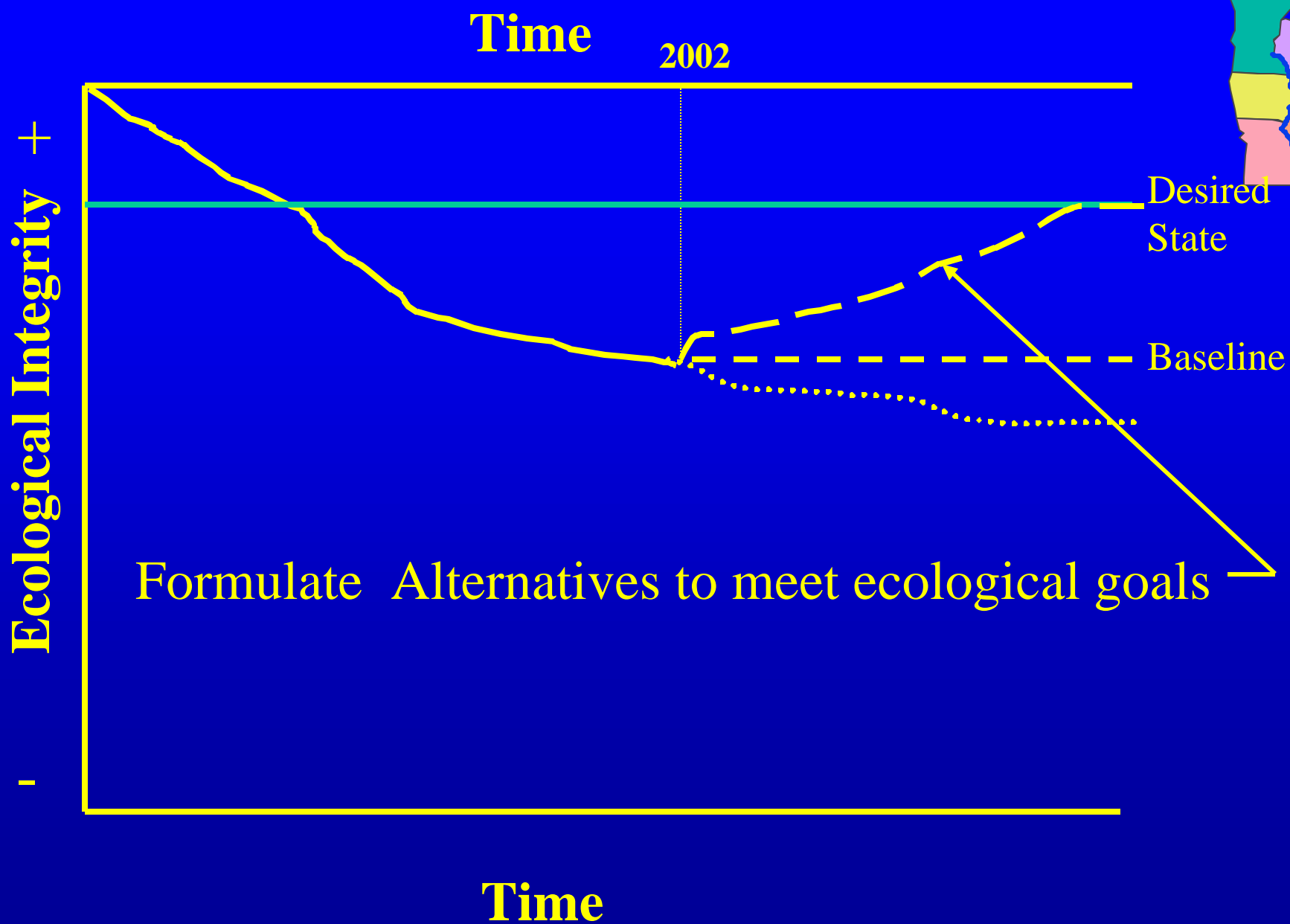
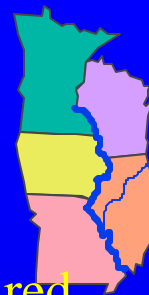
Forecasting the Future Environment



Status and Trends Report

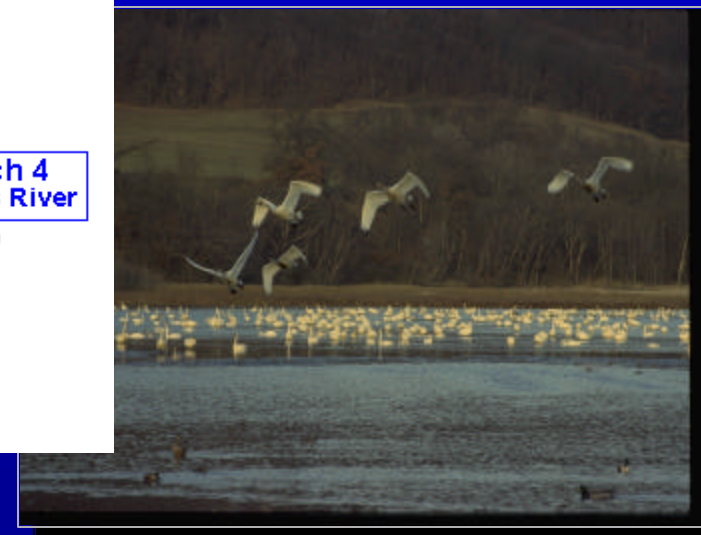


Cumulative Effects Study

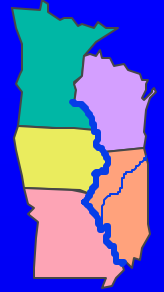


Not to Scale²⁹

Sustainable Upper Mississippi River System



Goals and Objectives



Overall Goal

- Sustainable River System

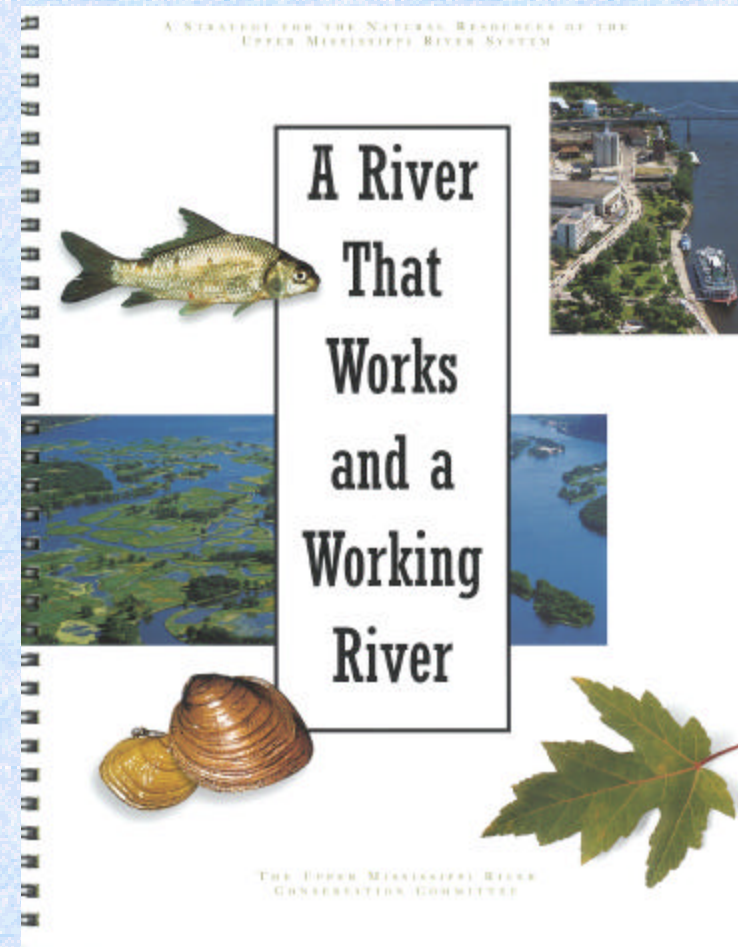
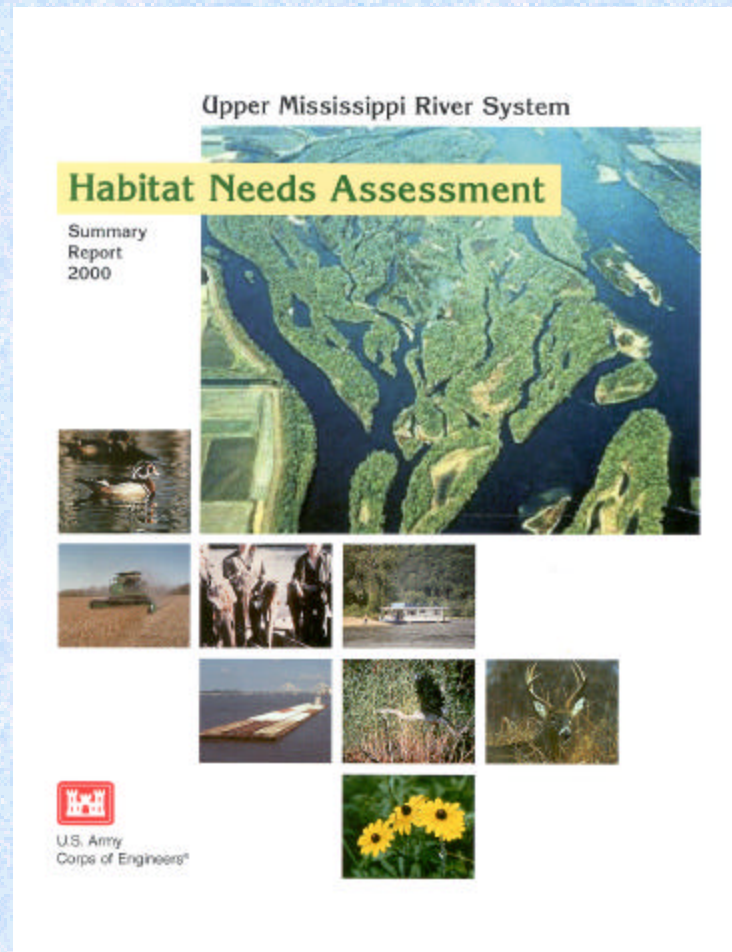
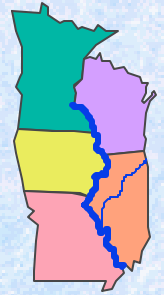
Ecosystem Goals

- Maintain native ecosystem types
- Maintain viable populations of native species
- Restore and maintain ecological processes
- Integrate human use within these constraints

Measurable Objectives

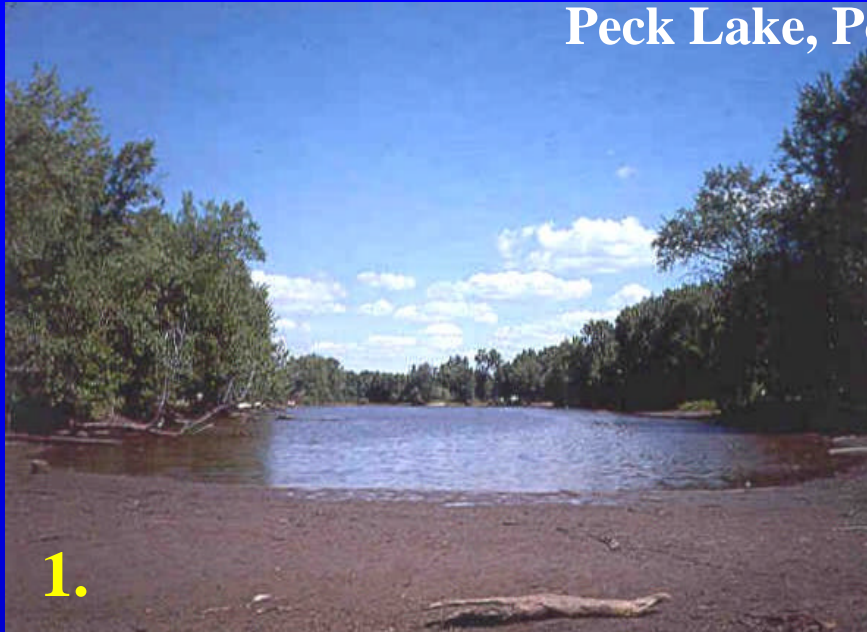
- Spatially explicit
- Quantitative
- Time-bound

Consideration of Other System Planning Efforts



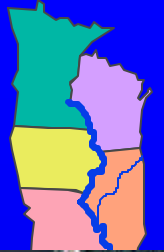
Water Level Management to Improve Aquatic Habitat

Peck Lake, Pool 9, Wisconsin

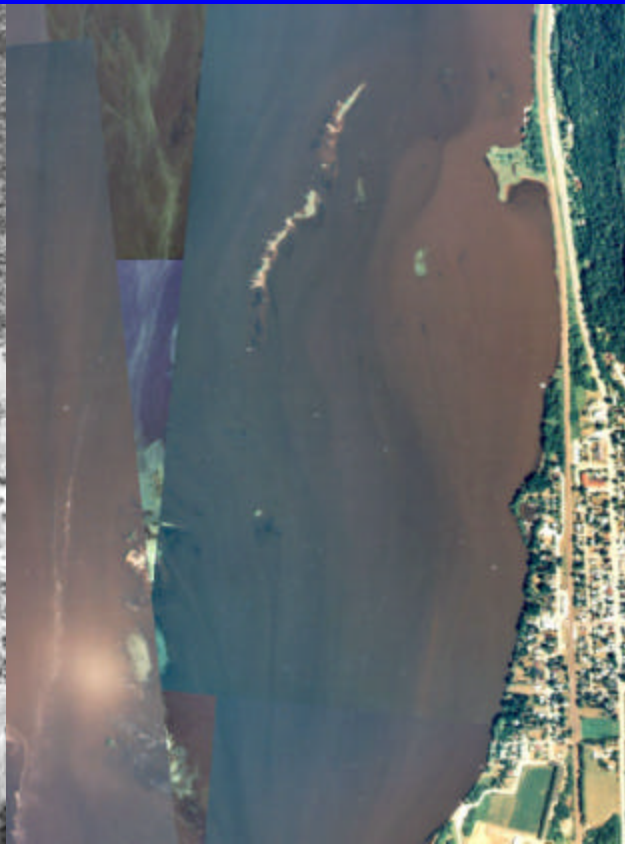


Island Protection and Restoration

Pool 8 Islands HREP Phase II,
near Stoddard, Wisconsin



October 1961



August 1994



August 2000

Non-Structural Measures

- Industry Self-Help
- Scheduling
- N-Up/N-Down Policy
- Congestion Fees
- Tradable Permits

1200-Foot Lock



Adjacent Moorings



Guidewall Extension

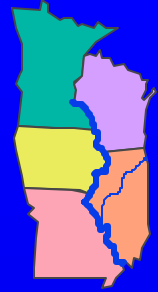


**Structural
Measures**



Navigation Study

Potential Alternatives



Alternative A

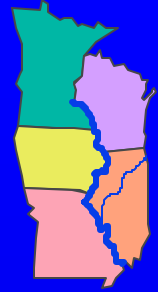
Ecosystem Improvement Measures:

- Modifications to O&M, fish passage at dams, water level management, additional backwater rehabilitation, and island protection and creation.

Navigation Improvement Measures:

- Continued O&M, periodic rehabilitation and Mooring Cells.

Potential Alternatives



Alternative M

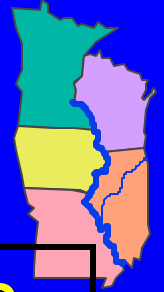
Ecosystem Improvement Measures:

- Modifications to O&M, fish passage at dams, water level management, additional backwater rehabilitation, and island protection and creation.

Navigation Improvement Measures:

- Continued O&M, periodic rehabilitation, mooring cells, new locks, guidewall extensions plus mitigation for site specific and systemic effects.

Alternatives Assessment Matrix



Alternat ives	Future World 1	Future World 2	Future World 3	Future World 4	Future World 5
A	Yes	No	No	No	No
B	Yes	Yes	No	No	No
C	No	Yes	Yes	Yes	Yes
D	No	No	Yes	Yes	Yes
M	No	No	No	Yes	Yes

INFORMATION

PLANNING

**ADAPTIVE
MANAGEMENT**

IMPLEMENTATION

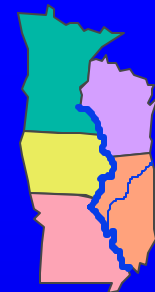
MONITORING

ASSESSMENT



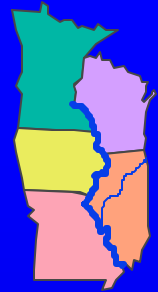
Rock Island District

Interim Report-July 2002



- Restructured philosophy
- Blueprint for moving forward
- Snapshot of evaluation
- Implementation issues
- Recommendations??

Current Schedule

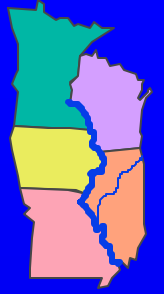


Interim Report

- Complete Draft Interim Report May 02
- Submit Interim Report to USACE July 02

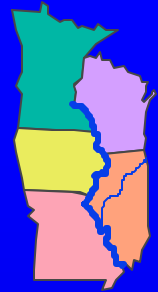
Feasibility Report

- Tentative Plan Winter 03
- Public Meetings Spring 03
- Draft Feasibility Report Winter 04
- Division Commander's Notice Summer 04
- Chief's Report Fall 04



Questions?

For More Information



- **Internet Homepage Address:**
www.mvr.usace.army.mil/publicaffairsoffice/navigationstudy.htm
- **Newsletters**
- **Toll Free Telephone Number:**
800/872-8822
- **Denny Lundberg 309/794-5632**
Denny.A.Lundberg@mvr02.usace.army.mil